

Model PM-90SE User Guide

Integrated Amplifier

ENGLISH

WARRANTY

For warranty information, contace your local Marantz distributor.

RETAIN YOUR PURCHASE RECEIPT

Your purchase receipt is your permanent record of a valuable purchase. It should be kept in a safe place to be referred to as necessary for insurance purposes or when corresponding with Marantz.

IMPORTANT

When seeking warranty service, it is the responsibility of the consumer to establish proof and date of purchase. Your purchase receipt or invoice is adequate for such proof.

FOR U.K. ONLY

This undertaking is in addition to a consumer's statutory rights and does not affect those rights III any way.

FRANÇAIS

GARANTIE

Pour des informations sur la gerantie, contacter le distributeur local Marentz.

CONSERVER L'ATTESTATION D'ACHAT

L'attestation d'achat est le preuve permanente d'un achat de valeur. La conserver en lieu sur pour s'y reporter aux lins d'obtention d'une couverture d'assurance ou dans le cadre de correspondances avec Marantz.

IMPORTANT

Pour l'obtention d'un service couvert par la garantie, il incombe au client d'établir la preuve de l'achat et d'en corroborer le date. Le reçu ou la facture constituent des preuves suffisantes.

DEUTSCH

GARANTIE

Bei Garantiefragen wenden Sie sich bitte an Ihren Marantz-Halindler.

HEBEN SIE IHRE QUITTING GUT AUF

Die Quittung dient Ihnen als bielbende Unterlage für ihren wertvollen Einkauf Des Aufbewahren der Quittung ist wichtig, die die derin enthellenen Angeben für Versichenungswecke oder bei Korrespondenz mit Marantz angeführt werden müssen.

WICHTIGI

Bei Garantiefragen muß der Kunde eine Kaufunterlage mit Kaufdelum vorlegen. Ihren Quittung oder Rechnung ist als Unterlage ausreichend.

ITALIANO

Condizioni di garanzia

L'apparecchio e' garantito per 365 giorni delle data di acquisto comprovata de un documento attestante à nominativo del rivenditore e la data di vendita. La garanzia sara' prestata con le sostituzione o riparazione gratuita delle parti difettore.

Non aono coperii da garanzia difetti derivanti da uso improprio, errata installazione, manutenzione effettuata da personale non autorizzato o, comunque, da circostanze che non possano riferirali a difetti di tunzionamento dell'apparecchio. Sono inoltre esclusi dalla garanzia [ili interventi inerenti l'installazione e l'allacciamento agli impianti di alimentazione.

Gli apparecchi verranno riparati presso i nostri Centri di Assistenza. Le spese ed i rischi di trasporto sono a carlos del cliente.

Le case costruttrice declina ogni responsabilità" per danni diretti a indiretti provocati dalla inosservanza delle prescrizioni di installazione, uso e manutenzione deltagliata nel presenta manuale.

Per informazioni sull'abbonamento al Servizio Assistenza postgaranzia e per conoscere l'indirizzo del Centri Assistenza Marantz rivolgetevi al nostro servizio consumatori (telefono 1678-20026 - numero verda).

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ENGLISH:

This unit meets the requirements of EEC Recommendation 82/499.

FRANCAIS:

Cet appareil ext conforme aux directives 82/499 de la CEE.

DEUTSCH:

Dises Gerät entspricht der EWG-Empfehlung 82/499.

ITALIANO:

Questo apparecchio è conforme ai requisiti della direttiva CEE 82/499.

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Thank you very much for purchasing Marantz SE Series product.

The SE (Specifal Edition) Series a system product which is "tuned up" with first priority on the sound quality, and composed of original models including the PM-90 integrated amplifier. The know-how of Marantz is concentrated in this system to perform music with excellent sound quality that you have just received on the stage between the left and right speakers.

The SE Series components use three types of parts as common parts to improve the sound quality. The toroidal transformer is a part featuring high power supply capability and small vibration of the transformer, and has very small leakage flux thus the adverse effects on the musical signal due to the leakage flux is almost null. The coppoer-plated chassis eliminate the influence of high frequencies inside the cabinet on the musical signal. The thick top cover reduces the influence of mechanical vibration due to internal and external sources of vibration. All of these parts play very important roles in achieving a clear separation of acoustic image, improving the signal-to-noise ratio as noticed by the human years and reproducing a stereo image with a three-dimensional feeling.

The SE. The Special Edition for those who are in love with music.

FOREWORD

This section must be read before any connection is made to the mains supply

WARNINGS

Do not expose the equipment to rain or moisture

Do not remove the cover from the equipment

Do not push anything inside the equipment through the ventilation holes

Do not handle the mains lead with wet hands

EQUIPMENT MAINS WORKING SETTING

The voltages can be switched to 230 V and 240 V respectively. When it is required to switch the predetermined voltage of your model, please consult your dealer or the service station in your area.

MAINS PLUG CONNECTIONS FOR EQUIPMENT SOLD IN THE U.K.

The wires in the mains lead are coloured in accordance with the following code:

- brown is the live wire.
- -- blue is the neutral wire

Because sthe colours of these wires may not correspond with the terminal identificataion in your plug, proceed as follows. Connect the

- brown wire to the terminal marked "L" or coloured brown or red
- blue wire to the terminal marked "N" or coloured blue or black

When using # 13 A plug conforming to BS1363, use a 3 A fuse. For other plugs, use a 5 A or lower rated fuse # the plug, adaptor or at the distribution board.

DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL IN THE PLUG WHICH IS MARKED BY THE LETTER © OR BY THE SAFETY EARTH SYMBOL & OR COLOURED GREEN OR GREEN - AND - YELLOW

COPYRIGHT

Recording and playback of any material may require consent. For further information refer to the following:

- Copyright Act 1956
- Dramatic and Musical Performers Act 1958
- Performers Protection Acts 1963 and 1972
- any subsequent statutory enactments and orders

ABOUT THIS USER GUIDE

Refer to the Figures on the pages at the rear of this user guide. The callout numbers on the Figures correspond to those found in the text. All references to the connections and controls that are printed in BOLD type are as they appear on the unit.

PRECAUTIONS

The following precautions should be taken when operating the equipment

GENERAL PRECAUTIONS

When setting the equipment ensure that

- The ventilation holes are not covered
- air is allowed to circulate freely around the equipment
- it is on a vibration free surface
- it will not be exposed to interference from an external source
- it will not be exposed to excessive heat, cold, moisture or dust
 - it will not be exposed to direct sunlight
- it will not be exposed to electrostatic discharges

In addition, never place heavy objects on the equipment.

If a foreign body or water does enter the equipment, contact your nearest dealer or service center.

Do not pull out the plug by pulling on the mains lead, hold the plug

It is advisable when leaving the house, or during a thunderstorm, to disconnect the equipment from the mains supply

CONNECTIONS

(Figure 1)

CONNECTION OF TUNER

Connect the output Jacks of your stereo tuner to the TUNER tacks of this unit.

CONNECTION OF COMPACT DISC PLAYER

Connect the output jacks of your CD player to the CD jacks of this unit

CONNECTION OF TURNTABLE

Connect the L (Left) output cord of the turntable to the "L" PHONO jack of this unit, and connect the (Right) output cord to the "R" PHONO jack. Also be sure to connect the turntable's grounding wire to the GND jack of this unit. The GND jack does not have to be connected if the turntable is not provided with a grounding wire.

CONNECTION OF DCC/TAPE DECK

Connect the IN (recording input) jacks of the tape deck to the TAPE OUT jacks of this unit, and connect the OUT (playback output) jacks of the tape deck in the TAPE IN jacks of this unit.

CONNECTION OF SPEAKER SYSTEM

- The speakers in the speaker system should have an impedance between 4 and 16 ohms. If speakers with an impedance of less than 4 ohms are connected, the protec] tion circuitry may be activated during play.
- Connect the Right channel speaker to the E terminals, and the Left channel speaker to the L terminals.
- The output terminals have positive (+ Red) and negative (-: Black) polarity, and each speaker also has the same polarity (+ and -) When connecting the speakers, be sure to connect the terminals with the same polarity (+ with +. with -).

CONTROLS, CONNECTORS, AND INDICATORS

(Figure 2)

1 AUX 1/2 INPUT JACKS

These are auxiliary input jacks which can be used a connect the audio outputs of AV components such as TV multiplex/stereo audio tuners, VCRs, and leserdisc players.

(2) TUNER INPUT JACKS

Connect the output lacks of the tuner to these lacks

(3) CD PLAYER INPUT JACKS

Connect the output jacks of a Compact Disc player to these lacks.

(4) PHONO INPUT JACKS

Connect the output jacks of a turntable to these jacks

(5) GND (GROUND) TERMINAL

Connect the grounding wire from the turntable to this terminal

(6) DCC/TAPE IN/OUT JACKS

Connect the play (output) jacks and record (input) jacks of tape decks to these jacks.

Up to three tape decks can be connected.

7 BALANCED INPUT CONNECTORS

Connect to a component equipped with balanced output connectors.

(8) SPEAKER SYSTEM TERMINAL

Connect your speaker system to these terminal.

(9) POWER CORD

Connect to a household power outlet

10 POWER SWITCH

Pressing once switches the power ON, and pressing again switches it OFF.

The POWER Indicator lights when the POWER switch is ON, and go out when the POWER switch is OFF.

1 MONITOR SWITCHES

Press one of the switches to monitor or play one of the tape decks connected to this unit. The indicator above the pressed switch lights up. When the tape decks are not to be monitored or played, press the MONITOR switches so that the SOURCE indicators light.

12 INPUT SELECTOR

Selects the program source to be recorded or played from the PHONO, CD BALANCED, CD, TUNER, AUX 1, and AUX 2.

(3) VOLUME CONTROL

Adjusts the volume level. Turn the knob clockwise to increase the volume.

14 MUTING SWITCH

When this switch is pressed, the audio signal is muted to -∞ dB. Use this switch when it is required to eliminate the sound temporarily. The indicator lights when the switch is pressed.

NOTE:

Be sure the check the VOLUME control setting before pressing this switch to cancel muting. If the muting is canceled while the volume setting in high, the speakers could be damaged

15 PUSH OPEN A

Push this portion to open or close the sub-control panel

16 MM/MC SELECTOR SWITCH

When the INPUT SELECTOR is set to PHONO, the type of cartridge used on the turntable cana be selected between MM (Moving Magnet) and MC (Moving Coil) using this switch. Set this switch according to the acrtridge used on the turntable.

MC is selected when the switch is set to the low position

(17) REC SELECTOR SWITCH

Selects the tape dubbing mode between tape decks or the signal output at the REC OUT jacks

18 SOURCE DIRECT SWITCH

When this switch is pressed, the audio signal bypasses the tone circuitry (BASS, TREBLE) and balance control circuitry so that it can be reproduced with a higher quality. To cancel the Source Direct operation, press the switch again.

19 BALANCE CONTROL

Turn the knob to correct an unbalanced program source such as stereo broadcast or to vary the output level of the left or right channel. Note that, if the BALANCE control is turned fully in one direction, the sound will not be heard from the speaker on the other side.

20 BASS AND TREBLE TONE CONTROLS

Adjusts the tone by controlling the levels of two frequency bands. Turn each central toward (+) to enhance the corresponding frequency band, or toward (-) to attenuate it

TREBLE: Adjusts the high frequency level

BASS: Adjusts the low frequency level

(21) CLASS A SWITCH

Switches the amplifier operation mode between Class A (30 W, 8-ohm) and Class AB (130 W, 8-ohm).

The CLASS A indicator lights when the Class A operation is

This switch must be pressed while the power is OFF.

The initial setting of this switch is for Class AB operation.

NOTE:

The temperature of the top cover of the unit may rise during Class A operation, but this is not a malfunction. Do not place any object on the unit for this may block the ventilation and cause damage or malfunction

22 CLASS A INDICATOR

This indicator lights when the unit is in the class A operation mode. For details, refer to the description of the CLASS A switch.

23 SPEAKERS SWITCH

Press to select the speakers to be used. The corresponding indicator lights up.

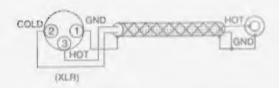
When listening with headphones, set the switch to OFF

24 PHONES JACK

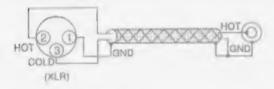
Insert the standard phone plug of the headphones into this tack.

Notes on BALANCED OUTPUTS connectors

- 1) The BALANCED output connectors uses XLR connectors.
- There are two types of professional-type internal wiring methods for XLR connectors.
 - 1. USA method (Pin 2 = COLD, Pin 3 = HOT)



2. Europe method (Pin 2 = HOT, Pin 3 = COLD)



3) The PM-90SE use the USA method described in 1 above.

When XLR connector cables are used and if your preamplifier or main amplifier uses the Europe method, the reproduced signal may be out of phase.

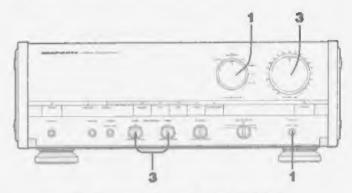
In this case, change the conrictions of pin 2 and pin 3 of one

of the XLR connectors of the cable to the USA method. Also when you use an XLR balanced cable (see Illustration below) and if the preamplifler or main amptitier uses the Europe method, change the connections of pin II and pin 3 of one of the XLR connectors of the cable to the USA method.



Now the signal can be reproduced in proper phase

OPERATION PROCEDURES



2 Operate each equipment to start play.

TO PLAY AN ANALOG RECORD

- Set the INPUT SELECTOR switch to PHONO
 Press the MM/MC switch according to the type of cartridge (MM or MC) used on the turntable.
- 2. Play a record on the turntable
- 3. Adjust the volume with the VOLUME control and adjust the lone with the BASS and TREBLE controls

NOTES:

- Set the VOLUME control to the minimum position before placing the stylus on the record or before replacing the cartridge
- Do not apply shock or vibration to the turnlable during play, as this may cause the stylus to jump and the analog record to be damaged.
- If the turntable is installed too close to the speakers, the volume may not be able to be increased to a high level due to howling.
- Do not switch the power OFF while the stylus is on the record surface

TO LISTEN TO FM/AM BROADCASTS

- 1. Set the INPUT SELECTOR switch to TUNER.
- 2. Tune in the desired station on the tuner
- 3. Adjust the volume with the VOLUME control and adjust the tone with the BASS and TREBLE controls.

TO PLAY A COMPACT DISC

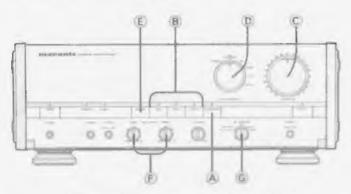
- Set the INPUT SELECTOR switch to CD
 When the CD balanced input is used, set the INPUT
 SELECTOR switch to CD BALANCED.
- 2. Play a CD on the CD player
- Adjust the volume with the VOLUME control and adjust the tone with the BASS and TREBLE controls.

TO PLAY A COMPONENT CONNECTED TO AUX 1/2 JACKS

The component connected to the AUX 1 or AUX 2 jacks on the rear panel can be played as follows.

- 1. Set the INPUT SELECTOR switch to AUX 1 or AUX 2.
- 2. Play the component connected to the selected input.
- Adjust the volume with the VOLUME control and adjust the tone with the BASS and TREBLE controls.

TAPE DECK OPERATION



Controls used for operating the tape deck.

TAPE PLAYBACK

- Press the SOURCE DIRECT button (A) so that the indicator goes off.
- Press the monitor switch (B) (DCC, TAPE 1 or TAPE 2).
 The indicator above the switch lights up.
- 3. Play a prerecorded tape on the tape deck
- 4. Adjust the volume with the VOLUME control @
- 5. Adjust the tone with the BASS and TREBLE controls (F)

NOTES:

- When not playing tapes, press the SOURCE switch (i) (so that the SOURCE indicator lights)
- The tape can be played regardless of the setting of the INPUT SELECTOR (i)

TAPE RECORDING

The playback sound of a program source component, such as a turntable, a tuner, or a CD player, can be recorded on tape as follows.

- 1. Set the REC SELECTOR switch @ to SOURCE
- Set the INPUT SELECTOR switch (1) to the program source to be recorded
- Play the program source.
- Operate the tape deck(s) to record the playback sound on tape(s)

TAPE MONITORING

When a three-head tape deck is connected to the TAPE jacks, the sound recorded on tape can be monitored through the speakers by pressing the TAPE monitor switch. In this case, the tape deck must be connected to this unit via both recording and playback connection cords.

NOTE:

When the tape deck is a two-head system, the recorded sound cannot be monitored even when the monitor switch is pressed in this case, however, the sound of the program source being recorded can be monitored.

DUBBING OF PRERECORDED TAPES USING THE REC OUT SWITCH

For dubbing from tape to tape(s), set the REC SELECTOR switch ® to DCC → TAPE 1/2 or TAPE 1 → 2/DCC Tapes can be copied regardless of the setting of the INPUT SELECTOR switch ®.

NOTES:

 To monitor the recorded sound, press the DCC, TAPE 1, or TAPE 2 monitor switch

- No signal is output at the REC OUT jacks when the REC SELECTOR switch is set to OFF There is no need to output a signal at the REC OUT jacks unless when recording it on tape(s). Therefore, it is recommended to set the switch usually to OFF so that the signal path inside the unit can be shortened and crosstalk, etc., can be reduced.
- . When recording, set to the position other than OFF

CARE AND MAINTENANCE

This section describes the care and maintenance tasks that must be performed to optimize the operation of your Marantz equipment.

CLEANING OF EQUIPMENT EXTERNAL SURFACES

The exterior linish of your PM-90SE will last indefinitely with proper care and cleaning. Never use scouring pads, steel wool, scouring powders or harsh chemical agents (e.g., lye solution), alcohol, thinners, benzine, insecticide or other volatile substances as these will may the finish of the equipment Likewise, never use cloths containing chemical substances. If the equipment gets dirty wipe the external surfaces with a soft, lint-free cloth.

If the equipment becomes heavily soiled.

- dilute some washing up liquid a water. a ratio of one part detergent to six parts water
- dip a soft, fint free in the solution and wring the cloth out until it is damp.
- wipe the equipment with the damp cloth.
- dry the equipment by wiping it with a dry cloth.

FUSE REPLACEMENT

If a fuse blows, unplug the equipment from the mains supply. Replace the fuse only with a fuse of the same type and rating. Replacing the fuse with one of a higher rating or a slower action will not protect the equipment and will invalidate the warranty. If the replacement fuse blows again after the equipment is turned on, the equipment should be taken to an authorized service facility.

REPAIRS

Only the most competent and qualified service technicians should be allowed to service the equipment. The Marantz company and its factory-trained warranty station personnel have the knowledge and special facilities needed for repair end calibration of this precision equipment. After the warranty period has expired, repairs will be performed for a charge if the equipment can be returned to normal operation.

In the event of difficulty, refer to your dealer or write directly to the nearest location to you that is listed on the Marantz Authorised Service Station list. If writing, please include the model and senal number of the equipment together with a full description of what you think is abnormal about the equipment's behaviour

TROUBLESHOOTING

In case of trouble or abnormal operation of the unit, check the following before contacting service personnel. What may seem to be a serious malfunction is often the result of a simple operation mistake. If the trouble persists after checking the following, please contact your dealer or nearest Marantz distributor.

The amplifier does not operate and the indicators do not light.

 Check to see if the power cord is inserted properly into the power outlet.

The indicators light but the amplifier does not operate.

- Check to see if the SELECTOR switches and VOLUME control are properly set.
- 2. Is the MUTING switch set to ON?

Sound is heard from only one of the speakers.

- 1. Check to see if the BALANCE control is properly set.
- Switch the power of the unit to OFF, and change the connections of the left and right speaker cords. If the sound from the same speaker is still not heard, its connection cord or the speaker itself may be defective.

Considerable hum noise is heard when the turntable is played.

- Check to see if the plugs from the turntable are properly connected to the PHONO jacks.
- Connect the grounding wire of the turntable in the GND terminal on the rear panel of this unit. If it has already been connected, try removing it.
- Check to make sure that the phono cartridge is attached securely to the tonearm.
- Unplug the power cord and plug it in again after inverting the orientation of the blades.

TECHNICAL SPECIFICATIONS (DIN)

FTC8 Ohms (20 Hz-20 kHz) 130/30 W (Class A) DIN 8 Ohms/4 Ohms 150/230 W IHF dynamic power 8 Ohms/4 Ohms/2 Ohms 160/240/380 W THD at 8 Ohms RMS rated output 0.005% Intermodulation distortion 0.005% Damping factor 200 Magnetic cartridge input Input sensitivity impedance 2.5 mV/47 kOhm Accuracy of frequency response to RIAA (20 Hz ~ 20 kHz) 0.5 dB ± 0.2 Signal to noise ratio 89 dB Moving coil cartridge input Input sensitivity impedance 180 µV/100 Ohm Signal to noise ratio 70 dB Tuner/CD/Aux/Tape inputs Input sensitivity impedance 150 mV/20 kOhm Signal to noise ratio 111 dB Frequency response (~1 dB limits) 10 Hz-90 kHz Channel separation (1 kHz/10 kHz) > 85/>65 dB General Power Requirements 230/240 V AC, 50/60 Hz Dimensions Width 420 mm Height 165 mm Depth 385 mm Weight Unit atone 13 kg	Power output	
IHF dynamic power 8 Ohms/4 Ohms/2 Ohms	FTC8 Ohms (20 Hz-20 kHz)	130/30 W (Class A)
8 Ohms/4 Ohms/2 Ohms	DIN 8 Ohms/4 Ohms	
THD at 8 Ohms RMS rated output	IHF dynamic power	
THD at 8 Ohms RMS rated output	8 Ohms/4 Ohms/2 Ohms	160/240/360 W
Damping factor 200 Magnetic cartridge input 2.5 mV/47 kOhm Accuracy of frequency response to RIAA (20 Hz ~ 20 kHz) 0.5 dB ± 0.2 Signal to noise ratio 89 dB Moving coll cartridge input 180 μV/100 Ohm Signal to noise ratio 70 dB Tuner/CD/Aux/Tape inputs 150 mV/20 kOhm Input sensitivity impedance 150 mV/20 kOhm Signal to noise ratio 111 dB Frequency response (~1 dB limits) 10 Hz-90 kHz Channel separation (1 kHz/10 kHz) >85/>65 dB General 230/240 V AC, 50/60 Hz Dimensions 420 mm Width 420 mm Height 165 mm Depth 385 mm Weight 385 mm		
Magnetic cartridge input Input sensitivity impedance 2.5 mV/47 kOhm Accuracy of frequency response to RIAA (20 Hz ~ 20 kHz) 0.5 dB ±0.2 Signal to noise ratio 89 dB Moving coil cartridge input 180 μV/100 Ohm Signal to noise ratio 70 dB Tuner/CD/Aux/Tape inputs 150 mV/20 kOhm Signal to noise ratio 111 dB Frequency response (~1 dB limits) 10 Hz~90 kHz Channel separation (1 kHz/10 kHz) >85/>65 dB General 230/240 V AC, 50/60 Hz Dimensions Width 420 mm Height 165 mm Depth 385 mm Weight 385 mm	Intermodulation distortion	0.005%
Input sensitivity impedance	Damping factor	200
Accuracy of frequency response to RIAA (20 Hz ~ 20 kHz)	Magnetic cartridge input	
Accuracy of frequency response to RIAA (20 Hz ~ 20 kHz)	Input sensitivity impedance	2.5 mV/47 kOhm
Moving coil cartridge input Input sensitivity impedance		
Input sensitivity impedance	Signal to noise ratio	69 dB
Signal to noise ratio	Moving coil cartridge input	
Tuner/CD/Aux/Tape Inputs Input sensitivity impedance 150 mV/20 kOhm Signal to noise ratio 111 dB Frequency response (-1 dB limits) 10 Hz-90 kHz Channel separation (1 kHz/10 kHz) >85/>65 dB General Power Requirements 230/240 V AC, 50/60 Hz Dimensions Width 420 mm Height 165 mm Depth 385 mm Weight	Input sensitivity impedance	
Input sensitivity Impedance 150 mV/20 kOhm Signal to noise ratio 111 dB Frequency response (-1 dB limits) 10 Hz-90 kHz Channel separation (1 kHz/10 kHz) >85/>65 dB Seneral Power Requirements 230/240 V AC, 50/60 Hz Dimensions Width 420 mm Height 385 mm Depth 385 mm	Signal to noise ratio	70 dB
Signal to noise ratio	Tuner/CD/Aux/Tape inputs	
Signal to noise ratio	Input sensitivity impedance	150 mV/20 kOhm
Channel separation (1 kHz/10 kHz) >85/>65 dB General Power Requirements 230/240 V AC, 50/60 Hz Dimensions Width 420 mm Height 165 mm Depth 385 mm		
General Power Requirements	Frequency response (-1 dB limits)	10 Hz-90 kHz
Power Requirements	Channel separation (1 kHz/10 kHz)	>85/>65 dB
Dimensions 420 mm Height 165 mm Depth 385 mm	General	
Dimensions 420 mm Height 165 mm Depth 385 mm	Power Requirements	
Height		
Depth	Width	420 mm
Weight	Height	165 mm
	Depth	385 mm
Unit alone	Weight	
	Unit alone	13 kg

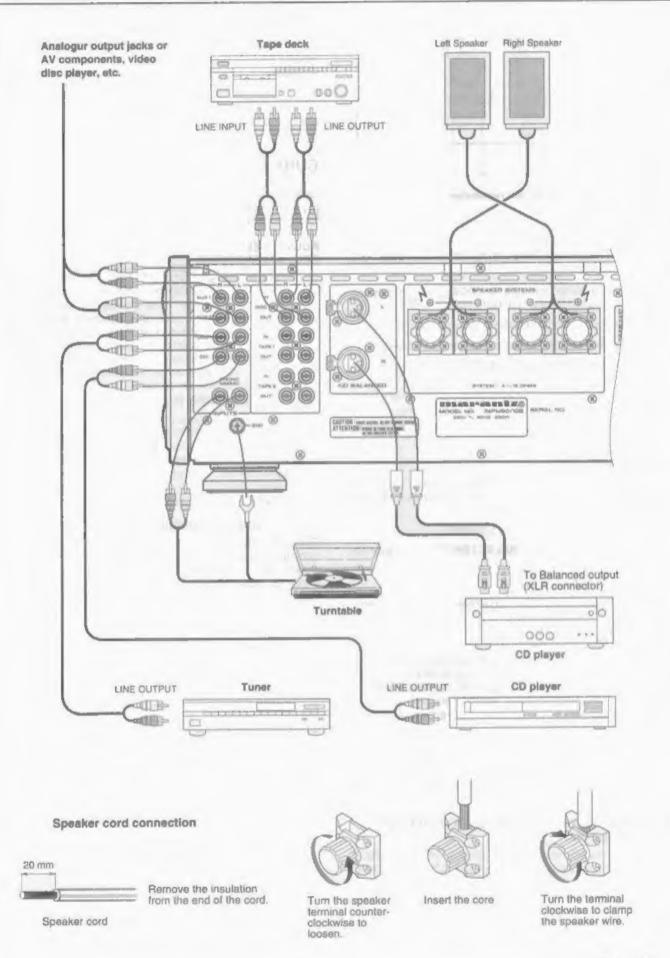


Figure 1

ENGLISH

(Figure 2)

- 1 AUX 1/2 INPUT JACKS
- (2) TUNER INPUT JACKS
- (3) CD PLAYER INPUT JACKS
- (4) PHONO INPUT JACKS
- (5) GND (GROUND) TERMINAL
- (6) DCC/TAPE IN/OUT JACKS
- (7) BALANCED INPUT CONNECTORS
- B SPEAKER SYSTEM
- (9) POWER CORD
- 10 POWER SWITCH
- **MONITOR SWITCHES**
- (2) INPUT SELECTOR
- (13 VOLUME CONTROL
- 14 MUTING SWITCH
- (15) PUSH OPEN A
- MM/MC SELECTOR SWITCH
- (17) REC SELECTOR SWITCH
- **18 SOURCE DIRECT SWITCH**
- (A)
- BALANCE CONTROL
- 20 BASS AND TREBLE TONE CONTROLS
- 21 CLASS A SWITCH
- **22 CLASS A INDICATOR**
- **23 SPEAKERS SWITCH**
- 24 PHONES JACK

FRANÇAIS

(Figure 2)

- PRISES D'ENTRÉE AUXILIAIRES 1/2 (AUX 1/2 INPUT)
- (2) PRISES D'ENTRÉE DE TUNER (TUNER INPUT)
- (3) PRISES D'ENTRÉE DE LECTEUR CD (CD PLAYER INPUT)
- PRISES D'ENTRÉE DE PLATINE-DISQUE (PHONO INPUT)
- (5) BORNE DE MISE À LA TERRE (GND)
- (6) PRISES D'ENTRÉE/SORTIE DE MAGNÉTOPHONE/DCC (DCC/TAPE IN/OUT)
- (7) CONNECTEURS DE'ENTRÉE ÉQUILIBRÉE (BALANCE)
- (8) BORNES D'ENCEINTES ACOUSTIQUES (SPEAKER SYSTEMS)
- (9) CORDON D'ALIMENTATION SECTEUR
- INTERRUPTEUR D'ALIMENTATION (POWER)
- SÉLECTEURS DE SURVEILLANCE DE BANDE (MONITOR)
- 3 SÉLECTEUR D'ENTRÉE (INPUT SELECTOR)
- RÉGLAGE D'INTENSITÉ SONORE (VOLUME)
- 1 INTERRUPTEUR DE MISE EN SOURDINE (MUTING)
- 19 POUSSER (PUSH OPEN) A
- SÉLECTEUR DE CELLULE À AIMANT/BOBINE MOBILE (MM/MC SELECTOR)
- SÉLECTEUR D'ENAEGISTRE-MENT (REC SELECTOR)
- INTERRUPTEUR DE PARCOURS DIRECT DE SOURCE (SOURCE DIRECT)
- (BALANCE)
- 20 RÉGLAGES DES TONALITÉS GRAVES ET AIGUÉS (BASS ET TREBLE)
- SÉLECTEUR DE CLASSE A (CLASS A)
- TÉMOIN DE CLASSE A (CLASS A)
- OMMUTATEUR DES HAUT-PARLEURS (SPEAKERS SWITCH)
- 2 PRISE DE CASQUE (PHONES)

DEUTSCH

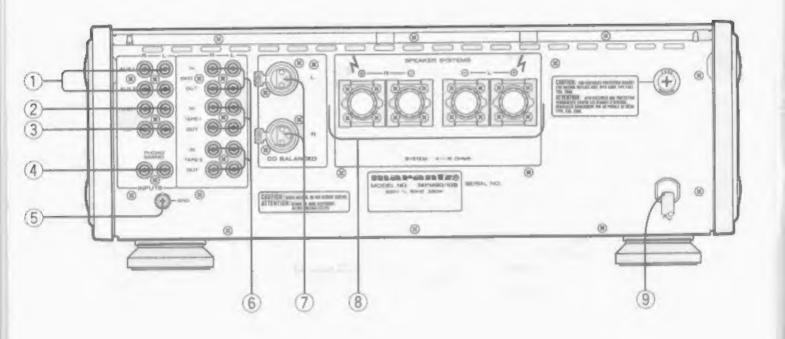
(Abbildung 2)

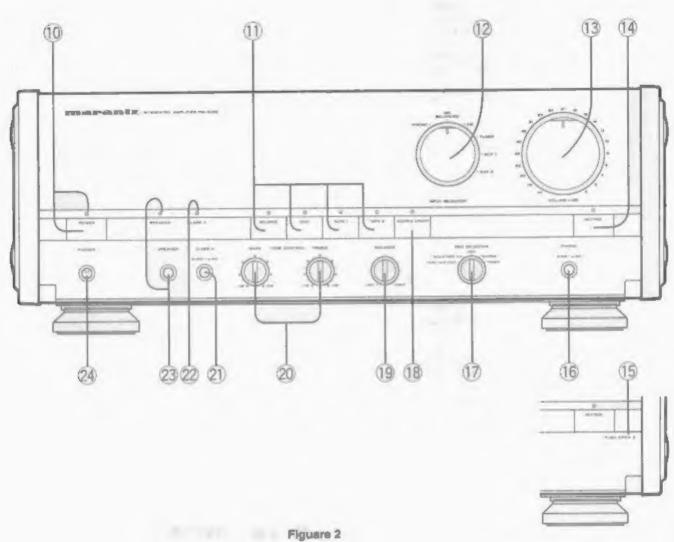
- 1 ZUSATZ-EINGANGSBUCHSEN 1/2
- Z TUNER-EINGANGSBUCHSEN
- (3) CD-SPIELER-EINGANGSBUCHSEN
- 4 PLATTENSPIELER-EINGANGSBUCHSEN
- 5 ERDUNGSKLEMME
- 6 DCC/KASSETTENDECK-EINGANGS-/ AUSGANGSBUCHSEN
- (7) SYMMETRISCHE EINGANGSANSCHLUSSE (BALANCED)
- B LAUSPRECHERSYSTEM-KLEMMEN
- 9 NETZKABEL
- **NETZSCHALTER**
- 11) MONITOR-SCHALTER
- 12 EINGANGSWÄHLER
- 13 LAUTSTÄRKEREGLER
- 14 DÄMPFUNGSSCHALTER
- 15 PUSH OPEN (drücken) A
- 16 MM/MC-WAHLSCHALTER
- (1) AUFNAHMENWAHLTER
- 18 QUELLEN-DIREKT-SCHALTER
- 19 BALANCEREGLER
- 20 TIEFEN- UND HÖHEN-KLANGREGLER
- 20 KLASSE-A-SCHALTER
- **(2)** KLASSE-A-ANZEIGE
- (SPEAKER SWITCH)
- (A) KOPFHÖRERBUCHSE

ITALIANO

(Figura 2)

- T PRESE AUX 1/2 INPUT
- (2) PRESE TUNER INPUT
- ③ PRESE CD PLAYER INPUT
- (4) PRESE PHONO INPUT (PHONO INPUT)
- (5) TERMINALE GND (MASSA)
- 6 DCC/PRESE TAPE INVOUT
- PRESE DI INGRESSO BILANCIATE (BALANCED)
- (8) TERMINALI SPEAKER SYSTEMS
- (9) CAVO III ALIMENTAZIONE
- 10 INTERRUTTORE POWER
- (1) TASTI MONITOR
- 12 SELECTOR INPUT
- **(13) COMANDO VOLUME**
- 1 TASTO MUTING
- (5) PORZIONE DEL PANNELLO CONTRASSEGNATA CON "PUSH OPEN" A
- 16 SELETTORE MM/MC
- 17 SELETTORE REC
- 18 TASTO SOURCE DIRECT
- 19 COMANDO BALANCE
- COMANDI DEL TONO BASS E TREBLE
- (1) TASTO CLASS A
- 20 INDICATORE CLASS A
- **23 INTERRUTTORE SPEAKERS**
- 24 PRESA PHONES





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